United States Patent and Trademark Office

UNITED STATES DEPARAMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/055,863	01/22/2002	Heidrun Engler	016930-000816US	4929	
20350 7590 11/21/2007 TOWNSEND AND TOWNSEND AND CREW, LLP			EXAM	EXAMINER	
TWO EMBAR	TWO EMBARCADERO CENTER			PESELEV, ELLI	
	EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834		ART UNIT	PAPER NUMBER	
			. 1623		
					
•			MAIL DATE	DELIVERY MODE	
			11/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/055,863	ENGLER ET AL.		
		Examiner	Art Unit		
		Elli Peselev	1623		
Period fo	The MAILING DATE of this communication apor Reply	opears on the cover sheet with the	correspondence address		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING Expensions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statureply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tild will apply and will expire SIX (6) MONTHS from the transfer to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status					
2a)	Responsive to communication(s) filed on 12 (This action is FINAL . 2b) This Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pre			
Dispositi					
Disposition of Claims 4)⊠ Claim(s) <u>28-51,53-58,82 and 84-120</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☑ Claim(s) <u>98-120</u> is/are allowed. 6) ☑ Claim(s) <u>28-30, 32-51,53-55 and 82-97</u> is/are rejected. 7) ☑ Claim(s) <u>31 and 56-58</u> is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specification is objected to be specification.	ccepted or b) objected to by the e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).		
Priority ι	ınder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) Notic	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F	ate		
Paper No(s)/Mail Date 6) Other:					

Application/Control Number: 10/055,863

Art Unit: 1623

Claims 42-51 and 53-55 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for chlorine ion, does not reasonably provide enablement for counterion (claim 28). The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

A conclusion of lack of enablement means that, based on the evidence regarding each of the factors below, the specification, at the time the application was filed, would not have taught one skilled in the art how to make and/or use the full scope of the claimed invention without undue experimentation.

(A) The breadth of the claims.

The claims encompass all possible counterions.

(B) The amount of direction provided by the inventor.

The inventor has not provided any direction on how to choose a countrion which will result in a compound having useful in enhancing delivery of therapeutic agents.

(C) The existence of working examples.

The working examples are directed to a single counterion i.e. chlorine ion.

(D) The quantity of experimentation needed to make or use the invention based on the content of the disclosure.

Because there is no way to predict a priori which others counterions, besides, chlorine, will result in useful compounds, it would take an undue amount of trial and error to determine specific counterions which result in compounds having the desired property.

Application/Control Number: 10/055,863

Art Unit: 1623

Applicant's arguments filed October 12, 2007 have been fully considered but they are not persuasive.

It has been noted that claim 28 has been amended to replace the term "counterion" with "chloride". However, note that claim 42 and its dependent claims still encompass the term "counterion".

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Application/Control Number: 10/055,863

Art Unit: 1623

Claims 28-30, 32-41, 82 and 84-97 are rejected under 35 U.S.C. 102(b) as antic-97ipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over applicant's admittance on page 17 of their response and page 10, lines 15-25 and page 12, lines 8-13 of the specification.

Applicants state in their response filed October 12, 2007 that Impurity 2 present in the commercial preparation corresponds to the claimed compounds wherein X3 is a pentose monosaccharide. It has been noted that compound claims have been amended to exclude compounds wherein X3 is a pentose monosaccharide. However, the composition claims still encompass a compound which is inherently present in Big Chap. On page 10, lines 15-25 it is stated that Big Chap preparation is used as a delivery enhancing composition for nucleic acid formulations. Thus, a composition comprising the claimed compound wherein X3 is a pentose monosaccharide in combination with a nucleic acid was known at the time the present invention was made. Further, if there is a deliverance in the therapeutic agents present in the claimed composition, it would have been prima facie obvious to a person having ordinary skill in the art at the time the claimed invention was made to use Big CHAP, which is a known delivery enhancing agent to use for enhancing the delivery of the agents encompassed by the present claims.

Claims 31, 56-58 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elli Peselev whose telephone number is (571) 272-0659. The examiner can normally be reached on 8.00-4.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia Jiang can be reached on (571) 272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Elli Peselev

PRIMARY EXAMINER
GROUP 1200